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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/532,653	10/31/2005	Joel Queirel	0584-1031	6277
466 YOUNG & TH	7590 06/08/200 OMPSON	EXAMINER		
209 Madison St		BERTHEAUD, PETER JOHN		
Suite 500 ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			3746	
			MAIL DATE	DELIVERY MODE
			06/08/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/532,653	QUEIREL, JOEL	
Office Action Summary	Examiner	Art Unit	
	PETER J. BERTHEAUD	3746	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLEWHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stature Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tind the will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 26 I	is action is non-final. ance except for formal matters, pro		
Disposition of Claims			
4) Claim(s) 1-8 and 11 is/are pending in the app 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-8 and 11 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.		
	or.		
9) ☐ The specification is objected to by the Examin 10) ☑ The drawing(s) filed on 25 April 2006 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the E	a) accepted or b) objected to e drawing(s) be held in abeyance. See ction is required if the drawing(s) is objection	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority documer application from the International Burea * See the attached detailed Office action for a lis	nts have been received. nts have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate	

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/26/2009 has been entered. It should be noted that claims 1, 3, 4, and 11 have been amended and claims 9-10 have been cancelled.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-4, 6, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pozivil 6,167,724 in view of Kobayashi 5,888,053.

Pozivil (Fig. 3) discloses a pump assembly comprising: a drive shaft 174 with, a first pump impeller 180 at a first axial end and driven by a first shaft output, the first impeller 180 operating at a low pressure and high flow rate, the first impeller having a first outlet (see 191) and a second outlet 188 to an exterior of the pump, a second pump impeller 192 at a second axial end and driven by a second shaft output, the second

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impeller 192 operating at a higher pressure and lower flow rate as compared to the first impeller 180 (see col. 7, lines 12-29), the second impeller 192 having an inlet and a first outlet 198 to the exterior of the pump, wherein the first outlet (191) of the first impeller 180 is connected to the inlet of the second impeller 192 and delivers low pressure water to the inlet of the of the second impeller 192 so that the fluid flows from a region of low pressure toward a region of higher pressure, and wherein the second outlet 188 of the first impeller 180 and the first outlet 198 of the second impeller are separate outlets to the exterior of the pump (see configuration in Fig. 3); wherein the first outlet (191) of the first impeller 180 is close to the second outlet 188 of the first impeller; wherein the first outlet (191) of the first impeller 180 is located upstream of the second outlet 188. However, Pozivil does not teach the following claimed limitations taught by Kobayashi.

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Kobayashi teaches a pump assembly comprising: an electric motor 6 having a drive shaft 7 with, axial ends, a first shaft output at a first of the axial ends (see bottom of Fig. 1), a second shaft output at a second of the axial ends (see top of Fig. 1), a first pump impeller 8B at the first axial end and driven by the first shaft output, the first impeller 8B having a first outlet (40), a second pump impeller 8C at the second axial end and driven by the second shaft output, the second impeller 8C having an inlet (see top of pump casing) and a first outlet 62 to the exterior of the pump, wherein the first outlet of the first impeller 8B is connected to the inlet of the second impeller 8C and delivers low pressure water to the inlet of the of the second impeller so that the water flows from a region of low pressure toward a region of higher pressure; wherein the water pumped by the second pump impeller 8C circulates around the motor 6 in order to

cool the motor; wherein the circulation of the fluid pumped by the second pump impeller 8C is carried out in a cylindrical space 40 formed around the motor 6, between the motor 6 and an external housing 2.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to have modified the pump assembly of Pozivil by arranging the electric motor between the first and second impellers and their outlet and inlet conduits, respectively, as taught by Kobayashi, in order to cool the motor by running the working fluid over the motor's outer casing.

4. Claims 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pozivil 6,167,724 in view of Kobayashi 5,888,053, and in further view of Cametti 2,887,062.

Pozivil in view of Kobayashi discloses the invention as discussed above.

However, Pozivil in view of Kobayashi does not teach the following claimed limitations taught by Cametti.

Cametti teaches a motor pump unit comprising: a motor housing 1 wherein cooling fluid is carried in a coiled pipeline 56 which surrounds the motor 1. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to have modified the assembly of Pozivil in view of Kobayashi by implementing a coiled pipeline, as taught by Cametti, instead of an annular cavity, in order to cool the motor because these assemblies are obvious variants of one another.

5. Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pozivil 6,167,724 in view of Kobayashi 5,888,053, and in further view of Gaeth 5,049,770.

Pozivil in view of Kobayashi discloses the invention as discussed above.

However, Pozivil in view of Kobayashi does not teach the following claimed limitations taught by Gaeth.

Gaeth teaches a pump where the impeller body (impeller housing (14)) is releasable from the motor (electric motor assembly (22)), housing (mounting plate (12) and silencer housing (16)), and pump impellers (impeller (108)) (see column 7, lines 5-36). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to make the low pressure impeller housing of Pozivil in view of Kobayashi releasable from the motor, housing, and impellers, as taught by Gaeth, in order to allow the impeller to be easily replaced or serviced.

Response to Arguments

6. Applicant's arguments with respect to claims 1-8 and 11 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PETER J. BERTHEAUD whose telephone number is (571)272-3476. The examiner can normally be reached on M-F 9am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Devon Kramer can be reached on (571) 272-7118. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Devon C Kramer/ Supervisory Patent Examiner, Art Unit 3746

PJB /Peter J Bertheaud/ Examiner, Art Unit 3746